Date: Fri, 21 May 93 04:30:27 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #614
To: Info-Hams

Info-Hams Digest Fri, 21 May 93 Volume 93 : Issue 614

Today's Topics:
2 Meters and Airlines (3 msgs)
G5RV Theory: Help
Mods for RCI-2950
QSL info need for Pitcairn Island

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 20 May 93 20:46:13 GMT
From: ogicse!emory!gatech!howland.reston.ans.net!europa.eng.gtefsd.com!slc20!
wwhitby@network.UCSD.EDU
Subject: 2 Meters and Airlines
To: info-hams@ucsd.edu

Look in a cellular phone user's manual and it says the same thing about using a
cell phone on an airline. Is it true or is it the fact that you might go into
roam and be picked up by many cellular towers at the same time?

Warren Whitby
wwhitby@mtgy.gtegsc.com

Date: Thu, 20 May 1993 18:31:51 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!news.ucdavis.edu!othello.ucdavis.edu!
ez006683@network.UCSD.EDU
Subject: 2 Meters and Airlines

To: info-hams@ucsd.edu

brucec@tekgen.bv.tek.com (Bruce Cheney) writes:
: How about getting them through the security monitors? Do they
: get all excited when they see a small handheld in carry-on
: baggage?
:
     No one has ever said anything to me. I kinda wish they did
though.
Dan
--
--
* Daniel D. Todd   Packet: KC6UUD@WA6RDH.#nocal.ca.usa   *
*   Internet: DDTODD@ucdavis.edu   *
*   Snail Mail: 1750 Hanover #102   *
*   Davis CA 95616   *
--
*   I do not speak for the University of California....   *
*   and it sure as hell doesn't speak for me!!   *
--

Date: 20 May 93 14:39:07 GMT
From: netcomsv!netcom.com!netcomsv!bongo!julian@decwrl.dec.com
Subject: 2 Meters and Airlines
To: info-hams@ucsd.edu

In article <9305191754.AA00648@ucsd.edu> ST1860@SIUCVMB.SIU.EDU (Gary R. Smith
KE9MI) writes:
>Hi-
>   I am getting ready to take a rather long trip by air and I was wondering i
>f anybody knew what the regulations were for operating a 2 meter rig aboard an
>commercial airplane.

     I have been waiting for the annual spate of "Can I use my
walkie-talkie on a plane" postings. Why do I enjoy this? Well like the
the "I think I heard a cuckoo" letters to The Times (The real one), it
signals the start of spring and summer is just round the corner.

     I have used a walkie-talkie from a plane many times. The plane
has never crashed. I used to drink with an SM commercial pilot who
used his walkie from the flight deck all the time.

     The doom mongers will tell you that using a radio from a plane
will cause it to come down in flames. Then of course they will tell
you that planes cost so much because they have to make everything RFI

proof.

Now, many cars are somewhat sensitive to RF, this includes expensive German cars assembled by disinterested Turks. We do get questions about "Can I use my walkie-talkie while driving to work?" The answer to that one is "Maybe" or "Your milage may vary".

--
Julian Macassey, N6ARE julian@bongo.tele.com Voice: (213) 653-4495
Paper Mail: 742 1/2 North Hayworth Avenue, Hollywood, California 90046-7142

Date: 20 May 93 19:20:32 GMT
From: news-mail-gateway@ucsd.edu
Subject: G5RV Theory: Help
To: info-hams@ucsd.edu

I've been following the G5RV thread hoping (in vain) that someone would work through the theory behind its design. So I tried to understand it myself, based on the design shown in the ARRL Antenna Handbook, namely 102 ft. of dipole center-fed by 34 ft. of 75-ohm twinlead. On 20 meters (what it was designed for), that is a 3/2-wavelength dipole, fed by a half-wavelength of 75-ohm line. So the radiation resistance of the 3rd harmonic dipole is going to be somewhere around 100 to 120 ohms, let's say. But I can't understand why we have a half-wavelength of parallel line. A quarter-wave length of 75-ohm line would transform the impedance from about 110 ohms to roughly 50 ohms, suitable for 50-ohm coax. But you wouldn't really want to terminate a 3/2-wavelength dipole in a quarter-wave section, because the transmission line length (1/4-wave) and one arm of the dipole (3/4-wavelength) together give you exactly two half-wavelengths of line into which you very nicely couple antenna currents, which unbalances your balanced feedline, giving you feedline radiation. So what do you get by extending the feedline another quarter-wave? Do we treat that as a half-wavelength feeder which should result in no transformation of the antenna feedpoint impedance of around 100 ohms? Or do we treat it as a second quarter-wave transformer? That doesn't make sense here either. Either way, the antenna works OK at 20m. Feeding the antenna/half-wave line section with 50 ohm coax gives you a 2:1 SWR. Feeding the antenna/quarter-wave line section with coax, with a quarter-wave 75-ohm section in between, gives you better than a 2:1 SWR. Am I analyzing this correctly? How about some help from you antenna guru's out there.

Question No. 2: The ARRL Handbook says, "A dipole can be used as an all-band radiator by using tuned open-wire feedline." (The familiar Zepp, as the term is used today -- Zepp REALLY refers to the end-fed radiators which trailed behind the Zeppelin airships). But I can find no reason why a coax-fed antenna should not behave identically as an all-band radiator, if one ignores the potential

losses due to feeding a lossy cable at high SWR. Is that the reason why we think of a ladder-line antenna as all-band, that the ladder-line exhibits little loss even at high SWR, whereas the coax has more loss? Assuming we properly match the coax at the antenna feedpoint to prevent a radiation current on the outside of the coax, I can't find any other reason (than loss) for using the ladder line. Again, am I looking at this correctly? BTW, the loss factor is a perfectly good reason. I just want to know if that's the ONLY reason. I'm a long-time lover of Zepp antennas.

steve - W3GRG
mosier@iris.uncg.edu

Date: 20 May 93 19:58:09 GMT
From: elroy.jpl.nasa.gov!swrinde!emory!kd4nc!n4tii@decwrl.dec.com
Subject: Mods for RCI-2950
To: info-hams@ucsd.edu

erchul@csd4.csd.uwm.edu (David A. V. Erchul) writes:

>

>   Now that I have decided to get a RCI 2950
>   (Thanks Nick, Robert, John & haga?)

>   Would some kind soul PLEASE mail/post
>   any/all mods for the RCI 2950.

>   Thanks
>   Dave

OK.....here they go...

Subj: Ranger 2950 mods

Someone here recently posted a message asking for available mods for the Ranger RCI-2950 10 meter radio. Here's what I have.

  Frequency Modification
1. Remove the case. I *think* you can remove either the top cover
   or the bottom cover to get to the PC board with the jumpers.
   It will be a small PC board immediately behind the front panel.
2. Locate "J2". There will be a jumper on pins P3 and P4.
3. Remove this jumper to expand coverage to 26 MHz - 29.7 MHz.

4. Move the jumper from P3-P4 to P1-P2 to expand coverage to
   26 MHz - 32 MHz.
5. After moving (or removing) the jumper, press the CPU reset button
   (located below J2).
NOTE: Operation between 30-32MHz may require retuning the VCO.

  CB Channel Readout Modification
1. Locate J1. There will be a jumper on pins P1-P2.
2. Remove jumper and place on P2-P3.
3. Press the LOCK button on the front panel. The readout will now
   display the CB channel number 1-40 -- also will display "A" channels.
4. Press LOCK again to return to VFO mode.
NOTE: The SHF button will not operate while in CB mode.
       This modification will disable the frequency lock function.

  CB Channel 9 Select Modification
1. Locate J3. There is a jumper between P1-P2.
2. Remove the jumper and place it on P2-P3.
3. Press the "roger beep" button to go directly to CB Channel 9.
NOTE: Doing this modification makes it impossible to turn off the
      roger beep feature (unless, *possibly* you make sure the
      roger beep is turned off before moving the jumper. I'm not
      sure).

  "Tuneup" Modifications

   Adjust VR14 (AMC) for maximum forward modification. Mod limiter
Q32 can be removed for more modulation, but it also disables VR12
(SSB ALC) and disables variable power for SSB. I do not recommend
removing Q32; you'll have plenty of modulation as is.

    Tune L34, L13, L14, L46 and L10 in AM mode for maximum forward
swing, using a peak-reading wattmeter. Try to balance for even power
from top to bottom of frequency range.
NOTE: You'll have a LOT of trouble identifying these cans. Sorry,
I don't know for sure where they are either.

    Adjust VR13 (AM High Power) for 12 watts dead key with the front
panel RF power control at maximum. Adjust VR15 (AM Low Power) for
2 watts dead key with front panel RF power control at minimum.

Date: 20 May 93 17:57:06 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!cass.ma02.bull.com!
opl.com!psinntp!psinntp!gdstech!gdstech!bat@network.UCSD.EDU
Subject: QSL info need for Pitcairn Island

To: info-hams@ucsd.edu

 VR6 is a little tough from the East Coast, but not too bad on 15
meters at nite. Most guys work the native, brian young (VR6BX) or
his wife Kari (VR6KY). You have worked one of 2 Japanes fellows
who are there for a few months, but might be leaving soon. They had
stated to QSL them to JF2KOZ (callbook address), but I also see
some reference to send the cards to VK4CPU. If you get no other
info, try the first route. If no answer (wait at leat 1 year!),
try the second route.
--
---
*   Pat Masterson   D12-25 | KE2LJ@KC2FD   *
*   Grumman Data Systems | 516-346-6316.   *
*   Bethpage, NY 11746 | bat@gdstech.grumman.com   *

Date: Thu, 20 May 1993 18:25:14 GMT
From: chapman@cu-arpa.cs.cornell.edu
To: info-hams@ucsd.edu

References <9305191754.AA00648@ucsd.edu>, <C7AE8L.JtM@ucdavis.edu>,
<2867@tekgen.bv.tek.com>n.sura.
Subject : Re: 2 Meters and Airlines

brucec@tekgen.bv.tek.com (Bruce Cheney) writes:

>How about getting them through the security monitors? Do they
>get all excited when they see a small handheld in carry-on
>baggage?

>Bruce Cheney NI7M

I always put my HT in my carry-on when I travel (but have never used
it on the plane), and I have never been questioned about it.

Richard Chapman
73 de KC4IFB

Date: 20 MAY 93 14:37:12
From: pa.dec.com!oct17.dfe.dec.com!ryn.mro4.dec.com!cimfie.enet.dec.com!
taber@decwrl.dec.com
To: info-hams@ucsd.edu

References <930518.224343.5e4.rusnews.w165w@garlic.sbs.com>,

<VBREAULT.93May19163213@rinhp750.gmr.com>, <1993May19.232430.6646@news.yale.edu>
Subject : Re: Radio Shack 70cm HT?

In article <1993May19.232430.6646@news.yale.edu>, oswood@hilbert.chem.yale.edu (Mark Oswood) writes...
>
>As a side note, I took a tour of W1AW last week, and the gentleman giving the
>tour pointed out that ARRL membership is growing despite the poor economy. He
>seemed to think that this was related to positive outreach programs of the
>ARRL. While I am generally an ARRL supporter, it seems like more than
>coincidence that this growth is related to the influx of new hams with the
>change in licensing requirements.
>

It doesn't have to be one or the other -- both those things can be true. In fact, most of the ARRL positive outreach programs stress the no-code license as an entry point, I suspect that both things are true. Just changing the licensing terms wouldn't be enough -- the word has to get out about it. But getting the word out without changing the license terms would also have been of limited benefit. Together, they give the growth we're seeing.

The other interesting thing is that in 20 years, these will be the days everyone is nostalgic about. People will tell lies about their TS440's and back in the times when a real ham had to be able to figure out which button kicked in the automatic antenna tuner -- hams were hams and radios had buttons and real honet-to-goodness knobs on them, not some point-and-click software interface....

>>>==>PStJTT

Date: 20 May 93 21:10:26 GMT
From: ogicse!uwm.edu!news.bbn.com!levin@network.UCSD.EDU
To: info-hams@ucsd.edu

References <9305191754.AA00648@ucsd.edu>, <C7AE8L.JtM@ucdavis.edu>, <2867@tekgen.bv.tek.com>
Subject : Re: 2 Meters and Airlines

brucec@tekgen.bv.tek.com (Bruce Cheney) writes:

|How about getting them through the security monitors? Do they
|get all excited when they see a small handheld in carry-on
|baggage?

No. I have now taken one trip with my HT, kept in my suitcase (which
I carried on). On the first leg, the woman running the xray machine
asked me to open the suitcase. I took out the radio, turned it on and
off, and she was happy.

On the way home, no mention was made and I didn't have to open my
suitcase.

     73 / JBL KD1ON

=
Nets: levin@bbn.com | "There were sweetheart roses on Yancey Wilmerding's
POTS: (617)873-3463 | bureau that morning. Wide-eyed and distraught, she
              KD1ON | stood with all her faculties rooted to the floor."
                     | -- S. J. Perelman

Date: 20 May 93 19:51:45 GMT
From: ogicse!uwm.edu!cs.utexas.edu!swrinde!emory!kd4nc!n4tii@network.UCSD.EDU
To: info-hams@ucsd.edu

References <9305181722.AA26942@ucsd.edu>,
<930518.224343.5e4.rusnews.w165w@garlic.sbs.com>,
<1993May20.085737.24037@ke4zv.uucp>
Subject : Re: Radio Shack 70cm HT?

gary@ke4zv.uucp (Gary Coffman) writes:

>In article <930518.224343.5e4.rusnews.w165w@garlic.sbs.com> system@garlic.sbs.com
(Tony Pelliccio) writes:
>>
>>The problem is, alot of Radio Shacks will sell to anyone. And that's
>>what caused the demise of 2m in certain areas of the country.

>Nonsense. All major ham radio dealers will sell to anyone. Sears
>used to carry amateur gear back before the service went into it's
>incentive licensing decline. That didn't harm amateur radio. Lafayette,
>Olsen, Allied, and others used to sell to the public without harm.
>They quit when the service stagnated after 1968. Sears tried a
>2 meter rig just before the no code license, but also dropped
>it because of lack of sales. Now sales are up as our numbers
>start to grow again, and mass marketers are returning to the
>fold. My hat's off to RS for taking such bold steps into such
>a volatile market.

>Gary

What Sears 2m Rig? I don't remember one? I've been around since before
the no-code controversy!

John
n4tii%kd4nc.uucp@gatech.edu

>--
>Gary Coffman KE4ZV | You make it, | gatech!wa4mei!ke4zv!gary
>Destructive Testing Systems | we break it. | uunet!rsiatl!ke4zv!gary
>534 Shannon Way | Guaranteed! | emory!kd4nc!ke4zv!gary
>Lawrenceville, GA 30244 | |

Date: (null)
From: (null)
****
I hope those help....I assume no liability for the above mods...I got them
off some BBS somewhere and just merely passing them along...

(I'm pretty sure they work...no CB bootleggin' there good buddy!)

John
n4tii%kd4nc.uucp@gatech.edu

End of Info-Hams Digest V93 #614
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